

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of preparing an aliphatic polymer having a ketone group in a main chain thereof, wherein polyhydric alcohol ~~which contains a secondary alcohol group and a primary alcohol group in a single molecule and is~~ a raw material of the aliphatic polymer is polymerized in the presence of a catalyst, and the polyhydric alcohol is a polyether polyol.

2. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is an oxidation catalyst for a hydroxyl group of the polyhydric alcohol.

3. (Original) The method of preparing and aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is a dehydration catalyst for a hydroxyl group of the polyhydric alcohol.

4. (Canceled)

5. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is an aqueous solution.

6. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is volatile.

7. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is nonvolatile, and is thermally decomposed at a temperature equal to or lower than the decomposition temperature of the aliphatic polymer having a ketone group in a main chain thereof.

8. (Canceled)

9. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst is sulfuric acid.

10-11. (Canceled)

12. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein a mixture of the polyhydric alcohol and a diol compound is used as a raw material to polymerize the polyhydric alcohol and the diol compound.

13. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the raw material is heated during polymerization.

14. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the raw material is heated by an electromagnetic wave during polymerization.

15. (Original) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the polymerization is conducted such that a hydroxyl group remains in a resultant polymer.

16. (Currently Amended) A method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof, comprising polymerizing polyhydric alcohol ~~which contains a secondary alcohol group and a primary alcohol group in a single molecule and is~~ as a raw material of the aliphatic polymer in the presence of a catalyst, wherein the polyhydric alcohol is a polyether polyol.

17. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is an oxidation catalyst for a hydroxyl group of the polyhydric alcohol.

18. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is a dehydration catalyst for a hydroxyl group of the polyhydric alcohol.

19. (Canceled)

20. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is an aqueous solution.

21. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is volatile.

22. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is nonvolatile, and is thermally decomposed at a temperature equal to or less than the decomposition temperature of the aliphatic polymer having a ketone group in a main chain thereof.

23. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst contains at least one selected from sulfuric acid, nitric acid, hydrogen peroxide,  $\text{Na}_2\text{Cr}_2\text{O}_7$ ,  $\text{CrO}_3\text{Cl}$  and  $\text{NaOCl}$ .

24. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the catalyst is sulfuric acid.

25-26. (Canceled)

27. (Currently Amended) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein

a mixture of the polyhydric alcohol and a diol compound is used as a raw material to polymerize the polyhydric alcohol and the ~~diol~~ compound.

28. (Currently Amended) The method of preparing a composition containing an aliphatic ~~olymers~~ polymer having a ketone group in a main chain thereof according to claim 16, wherein the raw material is heated during polymerization.

29. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 16, wherein the raw material is heated by an electromagnetic wave during polymerization.

30. (Currently Amended) ~~The A~~ method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof ~~according to claim 16,~~ comprising polymerizing polyhydric alcohol which contains a secondary alcohol group and a primary alcohol group in a single molecule and is a raw material of the aliphatic polymer in the presence of a catalyst, wherein the raw material is polymerized such that a hydroxyl group remains in a resultant polymer to obtain a gel substance, and the gel substance is supplied onto a substrate, and then heated and hardened.

31. (Currently Amended) ~~The A~~ method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof ~~according to claim 16,~~ comprising polymerizing polyhydric alcohol which contains a secondary alcohol group and a primary alcohol group in a single molecule and is a raw material of the aliphatic polymer in the presence of a catalyst, wherein the polyhydric alcohol and an electrically conductive powder are used as the raw material.

32. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 31, wherein the electrically conductive powder is metal particles.

33. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 31, wherein the electrically conductive powder is at least one of carbon nanotubes and carbon nanotubes modified by a functional group.

34. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 31, wherein the electrically conductive powder is carbon nanotubes modified by a functional group with which the polyhydric alcohol is polymerized.

35. (Original) The method of preparing a composition containing an aliphatic polymer having a ketone group in a main chain thereof according to claim 34, wherein the functional group is carboxylic acid.

36. (New) The method of preparing an aliphatic polymer having a ketone group in a main chain thereof according to claim 1, wherein the catalyst contains at least one selected from sulfuric acid, nitric acid, hydrogen peroxide,  $\text{Na}_2\text{Cr}_2\text{O}_7$ ,  $\text{CrO}_3\text{Cl}$ , and  $\text{NaOCl}$ .